Background information
Lipoma preferred partner (LPP) is encoded by the preferred fusion partner gene of the high mobility group protein HMGI-C. LPP is frequently affected by chromosomal translocations in a major group of soft tissue lipomas, as well as in a parosteal lipoma and in pulmonary chondroid hamartomas. The resulting fusion proteins comprise three DNA binding domains of HMGI-C fused to two or three C-terminal LIM domains of LPP and a reciprocal product, respectively. Expression of a HMGI-C/LPP fusion protein causes malignant transformation of fibroblasts.

Similar to its relatives zyxin and TRIP6 (thyroid receptor interacting protein 6), LPP consists of an N-terminal proline-rich domain followed by three C-terminal LIM domains (double zinc finger structures that are involved in protein-protein interactions). Like the cytoskeletal protein zyxin, LPP localizes to focal adhesions and cell-cell adherens junctions. LPP harbors a nuclear export signal and displays transcriptional activation capacity.

Antibody preparation and storage
100 µl of purified antibody in PBS containing 0.01% (w/v) NaN3. Antibody concentration: 500 µg/ml. Vials have been overfilled by 10% to ensure complete recovery of the specified amount. Produced without Freund’s Adjuvant. Short term storage at 4°C, stable for one year from date of shipment when stored at -20°C. Avoid repeated freezing and thawing! Do not store in "frost-free" freezers.

Antigen
The antibody was raised against a recombinant fusion protein comprising residues 1-109 of human LPP. Antibodies specific for LPP have been affinity purified on the antigen after proteolytic cleavage and removal of the fusion partner GST. Residual GST specific antibody activity is less than 5% of total activity (as assayed by immuno blotting).

Species cross-reactivity
human, porcine, rat

Applications
Western (immuno) blotting (0.5 µg/ml; 1:1000). Immunofluorescence (1-2 µg/ml; 1:250-1:1500) of formaldehyde fixed cells and tissues. Immunoprecipitation. All dilution numbers refer to the analysis of mammalian cells and tissues with intermediate to high levels of LPP expression and must be viewed as approximate.

Application of antibody IG817 in the immunofluorescence analysis of a rat cardiac fibroblast.

Immunoblotting of total human skin fibroblast proteins using antibody IG817.

Positive control
Human skin fibroblast protein (100 µg), supplied at 1 mg/ml in SDS (Laemmli) sample buffer. Use 25 µl (25 µg) per lane for Western blotting.

Related products
- affinity purified rabbit antibody to profilin, 10 µg (catalog # 0022-01)
- monoclonal antibody IE273 to human VASP, 50 µg (catalog # 0016-05)
- rabbit antiserum M4 to human VASP, 100 µl (catalog # 0010-10)
- Pre-immune serum to M4, 25 µl (catalog # 0013-02)
- positive control: human platelet protein in SDS sample buffer, 500 µg (catalog # 8010-50)

References
preferred fusion partner Gene of \textit{HMGIC} in lipomas, is a novel member of the LIM protein gene family. \textit{Genomics} \textbf{36}: 118-129.


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